i oci	1 1 1 200	703	. "			
Substitute for	Form 144	9A//TO (Modified)	)	Con	nplete if Known	
INTO	RMA	NON DISC	LOSURE	Application Number	10/057,161	
	OCAL			Filing Date	January 24, 2002 REC	C11.12
STAT	STATEMENT BY APPLICANT		First Named Inventor:	Liang He et al.	CIVE	
•	(use as	many sheets as necess	ary)	Group Art Unit	2641 OCT 1	1 200
				Confirmation No.:	1705	<del>- 200</del>
Sheet	1	of	2	Attorney Docket Number	1705 <b>76CMOlogy (</b> 42P12178	enter 2
		ОТНЕ	R ART – NO PATE	ENT LITERATURE DOCUM		
Examiner Initials*	Cite No <sup>1</sup>	Include name of (book, magazine	, journal, serial, sympo	AL LETTERS), title of the article (sium, catalog, etc.), date, page(s), and/or country where published	when appropriate), title of the item volume-issue number(s), publisher,	T <sup>2</sup>
BA		Harmonics-To-N		Term Analysis Of The Fundamen pled Sound; Institute Of Phone pgs. 97-110.		
8A				itch by subharmonic summationiety of America, pgs. 257-264.		
BA		Recognition; 5th	International Conference	The Effect of Fundamental Free ence on Spoken Language Proc ICSLP '98 Proceedings, Th4R9	essing; 30 <sup>th</sup> November-4 <sup>th</sup>	
<b>M</b>		ETSI standards a Applications Cor	activities for Distribunference, May 22-24,	eech Driven Services for Mobil ted Speech Recognition Front-e , 2000, San Jose, CA, USA., ents/AVIOS DSR paper.pdf>, 1	ends, AVIOS 2000: The Speech	
RA .		RABINER, LAV Algorithms; IEE October 1976, p	E Transactons On Ac	A Comparative Performance Scoustics, Speech, And Signal Pr	Study of Several Pitch Detection occessing, Vol. ASSP-24, No. 5,	
		Distributed Spee	ch Recognition - Au	rova 10/01/02		

		<u> </u>			
Examiner	6	ノー	#1101	Date Considered	_
Signature		<del></del>	THE STATE OF THE S	1/4/09	
			<del></del>	11000	_

<a href="http://www.etsi.org/technicalactiv/dsr/dsr.htm">http://www.etsi.org/technicalactiv/dsr/dsr.htm</a>, pgs. 1-3.

<sup>\*</sup>Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

/	∪.,		و الدور			
Substitute fo	r Form 142	PAPTO (Modified			omplete if Known	
IN	7D X & A.	.GV	CLOSURE	Application Number	10/057,161	
IIVIK				Filing Date	January 24, 2002	
STA	STATEMENT BY APPLICANT		First Named Inventor:	Liang He et al.		
	(use as	s many sheets as necess	sary)	Group Art Unit	2641	
				Confirmation No.:	1705	
Sheet	2	of	2	Attorney Docket Number	42P12178	
		ОТНЕ	ER ART – NO PAT	ENT LITERATURE DOCU	MENTS	
Examiner Initials*	Cite No <sup>1</sup>	Include name of (book, magazine	f the author (in CAPIT c, journal, serial, symp ci	TAL LETTERS), title of the article posium, catalog, etc.), date, page(s) ity and/or country where published	e (when appropriate), title of the item ), volume-issue number(s), publisher,	T <sup>2</sup>
Bd		Speech Processing, Transmission and Quality aspects (STQ); Distributed speech recognition; From end feature extraction algorithm; Compression algorithms, ETSI ES 201 108 V1.1.2 (2000-04), ETSI Standard, ©European Telecommunications Standards Institute 2000, F-06921 Sophia Antipo Cedex – France, pgs. 1-20.				
BJ.				, IBM® Products & Services > tware/webservers/transcoding/a		
· · · · · · · · · · · · · · · · · · ·					DEMENTED.	
:					RECEIVED	
					OCT 1 1 2002	
					Technology Center 2600	
			,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
					1	
<del> </del>	-	<del> </del>	<del></del>			<del></del>

Examiner
Signature

Aller

Date Considered

Substitute for Form 1449AJPTO (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)    Complete if Known	. : <b>••</b> .								
STATEMENT BY APPLICANT (use as many sheets as necessary)  Filing Date  Filing Date  Filing Date  Filing Date  Filing Date  Filing Date  First Named Inventor:  Group Art Unit  Confirmation No.  1705  Sheet  1 of 2 Attorney Docket Number 42390P12178  U.S. PATENT DOCUMENTS  Exam.   Cite   U.S. Patent Document   Number   Kind Code* (If known)   Name of Patentee or Applicant of Cited Document   MM-DD-YYYY   Pages, Columns, Lines, Where Relevant Figures Appear  10	Substitute for Form 1449A/PTO (Modified)						Comple	te if Known	
STATEMENT BY APPLICANT  (use as many sheets as necessary)  Filing Date  First Named Inventor:  Group Art Unit  2641  Confirmation No.  1705  Sheet  1 of 2 Attorney Docket Number 42390P12178  U.S. PATENT DOCUMENTS  Exam. Cite Initial* No.¹  Number Kind Code* (If known)  Number Kind Code* (If known)  Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear  Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear  Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear  Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear  Pages, Columns, Lines, Where Relevant Passages or Relevant Passages or Relevant Figures Appear  Pages, Columns, Lines, Where Relevant Passages or Rele	IN	FOI	RMATION	DISCI	OSURE	Application Number		10/057,161	
Group Art Unit 2641  Confirmation No. 1705  Sheet 1 of 2 Attorney Docket Number 42390P12178  U.S. PATENT DOCUMENTS  Exam. Cite Initial No. No. With Minimal Number (If known)  With Minimal No.	ŀ					Filing Date		January 24,	2002
Confirmation No. 1705  Sheet 1 of 2 Attorney Docket Number 42390P12178  U.S. PATENT DOCUMENTS  Exam. Cite No.	S	TAT	EMENT B	Y APP	PLICANT	First Named Inventor:		Liang He	
Sheet 1 of 2 Attorney Docket Number 42390P12178  U.S. PATENT DOCUMENTS  Exam. Initial* No. Number Kind Code* (If known)  Where Relevant Passages or Relevant Figures Appear  Name of Patentee or Applicant of Cited Document MM-DD-YYYY  Acero et al. 05-01-2001  RECEIVED			(use as many shee	its as necess	sary)	Group Art Unit		2641	
U.S. PATENT DOCUMENTS  Exam. Initial* No. No. Number Kind Code* (If known)  U.S. Patent Document Name of Patentee or Applicant of Cited Document MM-DD-YYYY Passages or Relevant Figures Appear  Number Vision Code* (If known)  U.S. Patent Document Name of Patentee or Applicant of Cited Document MM-DD-YYYY Passages or Relevant Figures Appear  Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear  Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear  Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear  Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear  Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear						Confirmation No.		1705	
Exam. Initial* No.1  Number Kind Code* (If known)  Name of Patentee or Applicant of Cited Document MM-DD-YYYY  Number Kind Code* (If known)  Name of Patentee or Applicant of Cited Document MM-DD-YYYY  Number Kind Code* (If known)  Name of Patentee or Applicant of Cited Document MM-DD-YYYY  Pages, Columns, Lines, Where Retevant Passages or Relevant Figures Appear  Pages, Columns, Lines, Where Retevant Passages or Relevant Figures Appear  Pages, Columns, Lines, Where Retevant Passages or Relevant Figures Appear  Pages, Columns, Lines, Where Retevant Passages or Relevant P	Sheet		1	of	2	Attorney Docket Number	er	42390P1217	78
Initial* No.1 Number Kind Code* (If known)  Acero et al.  O5-01-2001  PECEIVED  APR 0 2. 2003					U.S. PATE	NT DOCUMENTS			
RECEIVED  APR 0 2 2003		Cite No.	Number (	Kind Code <sup>2</sup>			Cited MM-	Document DD-YYYY	Where Relevant Passages or Relevant
APR 0 2. 2003	XXX	4276	US 6,226,606	Bl	Acero et al.	•	05-	01-2001	
APR 0 2. 2003	<u> </u>	183	- 18	ļ	ļ				
APR 0 2. 2003	<b>O</b>	5	<b>3</b>	<del>                                     </del>					
APR 0 2. 2003	1 38		8	<b></b>	+	<u> </u>			ייירט
APR 0 2 2003	No.	m1 2	9						IVED
Technology Center 2600								APR 0	<del>2. 2003</del>
							T	<del>achaolaav</del>	Center 2600
				<del>                                     </del>	<del>                                     </del>	<del></del>		comology	Ochrei 2000
					<del>                                     </del>	<u></u>			
						·			
			<del> </del>					<del></del>	
	<del></del>								
		l			<u></u>				

				 FOREIGN PATENT DOCUMEN	TS		
Exam. Initial*	Cite No. <sup>1</sup>	Office		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁰
M		wo	01/35389 A1	Konin-Klijke Philips Electronics N.V.	05-17-2001		
					-		

Examiner		12/11/	Date C	onsidered	_
Signature	10		1//9	1/05	
		A			_

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the twoletter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Substitute fo	Substitute for Form 1449A/PTO (Modified)			Comp	lete if Known	
1		•	CLOSURE	Application Number	10/057,161	
				Filing Date	January 24, 2002	-
STAT	STATEMENT BY APPLICANT			First Named Inventor:	Liang He	
	(use of	Keny steppes as nec	essary)	Group Art Unit	2641	
	0	- 100 ¥		Confirmation No.	1705	
Sheet	2	3 8	2	Attorney Docket Number	42390P12178	
	1 4	ОТН	ER ART – NO PATE	NT LITERATURE DOCUMEN	NTS	
Examiner Initials*	Cite No <sup>1</sup>	Rem (book,	number(s), publ	AL LETTERS), title of the article rial, symposium, catalog, etc.), do isher, city and/or country where p	oublished	T <sup>2</sup>
L()		Search Report	for PCT/US 02/359	49, mailed February 6, 2003, 2	2 pages.	
Det .					מבטבוועבס	
					RECEIVED	
:					APR 0 2 2003	
					Technology Center 2600	
,						
			_			

Examiner Signature	45 Aller	Date Considered	11/4/0	5
Signature		Considered		

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

					r	
	for Form 144			•	Complete if K	nown
SE TO	<b>NFORM</b>	IATI	ON DISCLOS	SURF	Application Number	10/057,161
(a)					Filing Date	January 24, 2002
1,48	SÉALEV	/IEN	IT BY APPLIC ny sheets as necessary)	ANT	First Named Inventor:	Liang He et al.
1	S (use	e as ma	ny sheets as necessary)		Art Unit	2641
*					Examiner Name	Not Yet Assigned
Sheet	1		of	2	Attorney Docket Number	42390.P12178
			U.S	S. PATENT DOCU	MENTS	
Examiner Initials*	Cite No.	Num	Document Number ber-Kind Code <sup>2</sup> (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	L	ـــــــ				rigules Appeal
. XY		US-	6,073,100	6-6-00	Alan G. Goodridge, Jr.	
BA		US-	6,195,632 B1	2-27-01	Steve Pearson	
		US-				
		US-				
<b></b>		US-			REC	EMEL
	ļ	US-			1120	
		US-			NOV	1 9 2003
<u> </u>	<del></del>	US-				
		US-			Technolog	y Center 2600
·	· · · · · · · · · · · · · · · · · · ·	US-			TOO THE STATE OF T	
	<del></del>	US-		<del></del>		
		US-		<u> </u>		
		US-				<u> </u>
		US-				

		FO	REIGN PATENT	DOCUMENTS	•	•
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document  Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т°

Examiner	SUL- MI	Date Considered
Signature	12	1/14/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁴Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for Form 1449/PTO						Complete if Known				
INEORMATION DISCLOSURE					RF	Application Number	10/057,161			
OSTATEMENT BY APPLICANT						Filing Date	January 24, 2	2002		
					NI	First Named Inventor:	Liang He et	al		
						Art Unit 2641				
						Examiner Name	Not Yet Assigned			
theet 2.5 of 2				Attorney Docket Number	42390.P1217	42390.P12178				
RADER	•/ 			NON PAT	ENT LIT	ERATURE DOCUMENTS	}			
Examiner Initials*	Cite No <sup>1</sup>			magazine, jo	oumal, se	AL LETTERS), title of the arti- rial, symposium, catalog, etc. isher, city and/or country whe	), date, page(s), vo		T <sup>2</sup>	
BA		Written	Opinior	n for PCT/U	S 02/359	949, mailed October 23, 20	003, 1 page			
					_					
				,			REC	EIVED		
				·- · · · · · · · · · · · · · · · · · ·			NOV .	1 9 2003	1	
							Technolog	y Center 2600		
L										
			<u> </u>		· <del></del>		·			
-					•					
				•						
				·			<u>-</u>			
		) _								
Examiner	. "	<i>'</i>		10			Date	Mulli		

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Considered

Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-788-9199) and select option 2.

Signature

Substitute	for Form 1449	IPTO		Complete if Known		
(TP	EINFOR	MA	TION DISCLOSUR	Application Number	10/057,161	
/0.				Filing Date	January 24, 2002	
	5 (8) It	=Mt	ENT BY APPLICAN	First Named Inventor:	Liang He	
APR 2	י איז איזעני	(use as	s many sheets as necessary)	Art Unit	2655	
Ħ				Examiner Name	To, Doris Ha	
Sheet	leet De Califa		of 1		Attorney Docket Number	42390P12178
U.S. PATENT DOCUMENTS						
Examiner	Cite No.			Publication Date	Name of Patentee or	L Baras Calumna Lines
Initials*	Cite No.		Document Number	MM-DD-YYYY		Pages, Columns, Lines, Where Relevant
IIIIIII	1		Occurrent Number	MM-UU-TYYY	Applicant of Cited Document	Passages or Relevant
		Number-Kind Code <sup>2</sup> (If known)				Figures Appear
	1					riguies Appear
级海边级旅		us- 6,018,710		01-25-2000	Wynblatt et al.	
BA		us- 6,188,985 B1		02-13-2001	Thrift et al.	
Rid-		us- 6,269,336 B1		07-31-2001	Ladd et al.	
<i>8x</i> +		us- 6,594,628 B1		07-15-2003	Jacobs et al.	† · · · · · · · · · · · · · · · · · ·
PA		US-	6,662,163 B1	12-09-2003	Albayrak et al.	
		U\$-		'	DEC	ארווערם
		US-			TIC	EIVED
		US-				
		US-			APR	2 7 2004
		US-				
ļ		US-			Technolo	by Center 2600
		US-				
		US-				
		US-				,
	,	US-				

Examiner Initials*	Cite No.¹	Foreign Patent Document  Country Code <sup>3</sup> Number <sup>3</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Τ°
134	_	WO 00/58942	10-05-2000	Thelen et al.	· · · · · · · · · · · · · · · · · · ·	
134		WO 01/95312 A1	12-13-2001	Hariharan		

Examiner	1///	1/11/1	Date Considered
Signature	4/7		1/14/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through ditation if not in conformance and not considered. Include copy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional). 'See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 'Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 'For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 'Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.